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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: GEUN-YOUNG YEOM, ET AL.

FOR: LAYER-BY-LAYER ETCHING APPARTUS USING NEUTRAL BEAM AND  
METHOD OF ETCHING USING THE SAME

PRELIMINARY AMENDMENT

The Assistant Commissioner of  
Patents and Trademarks  
Washington, DC 20231

Dear Sir:

Prior to the Examiner acting in the above-referenced application, please  
preliminary amend the claims as follows:

IN THE CLAIMS:

Please replace claims 1-4, 7-11 and 14-15 with the following re-written clean version.

1. (Amended) A layer-by-layer etching apparatus using a neutral beam,  
the layer-by-layer etching apparatus comprising:
- a reaction chamber having a stage therein on which a substrate to be etched is  
mounted;
  - a neutral beam generator for generating a neutral beam from a source gas to  
supply the neutral beam into the reaction chamber;
  - a shutter disposed between the neutral beam generator and the reaction chamber,  
for controlling the supply of the neutral beam into the reaction chamber;
  - an etching gas supply for supplying an etching gas into the reaction chamber;
  - a purge gas supply for supplying a purge gas into the reaction chamber; and

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Jennifer Matsen  
(Typed or printed name of person mailing paper or fee)

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